

Applic (No,Kind,Date): US 571629 A 19951213  
 National Class: \* 204243000R; 204294000; 264030000; 264039000;  
 264293000

IPC: \* C25C-003/08; F27D-001/16; B28B-007/04; B29C-059/00

CA Abstract No: \* 125(04)043752P

Derwent WPI Acc No: \* C 96-171642

Language of Document: English

Patent (No,Kind,Date): US 5888360 A 19990330

CELL FOR ALUMINIUM ELECTROWINNING (English)

Patent Assignee: MOLTECH INVENT SA (LU)

Author (Inventor): DE NORA VITTORIO (BS)

Priority (No,Kind,Date): US 961924 A 19971031; US 571629 A3

19951213; US 302178 B1 19940908

Applic (No,Kind,Date): US 961924 A 19971031

Addnl Info: 5683559 Patented

National Class: \* 204243000R; 204245000; 204294000

IPC: \* C25C-003/08

CA Abstract No: \* 125(04)043752P

Derwent WPI Acc No: \* C 96-171642

Language of Document: English

Patent (No,Kind,Date): US 6093304 A 20000725

CELL FOR ALUMINIUM ELECTROWINNING (English)

Patent Assignee: MOLTECH INVENT SA (LU)

Author (Inventor): DE NORA VITTORIO (BS)

Priority (No,Kind,Date): US 277930 A 19990329; US 961924 A1

19971031; US 571629 A3 19951213; US 302178 B1 19940908

Applic (No,Kind,Date): US 277930 A 19990329

Addnl Info: 5888360 Patented; 5683559 Patented

National Class: \* 205381000; 204245000; 204294000

IPC: \* C25C-003/08; C25C-003/00; C25B-011/12

CA Abstract No: \* 125(04)043752P

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# UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5683559	P	19940908	US AA	PRIORITY
			US 302178 B1	19940908
US 5683559	P	19951213	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 571629 A	19951213
US 5683559	P	19971104	US A	PATENT
US 5683559	P	20020108	US FP	EXPIRED DUE TO FAILURE TO
			PAY MAINTENANCE FEE	
			20011104	
US 5888360	P	19940908	US AA	PRIORITY
			US 302178 B1	19940908
US 5888360	P	19951213	US AA	PRIORITY
			US 571629 A3	19951213
US 5888360	P	19971031	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 961924 A	19971031
US 5888360	P	19990330	US A	PATENT
US 6093304	P	19940908	US AA	PRIORITY
			US 302178 B1	19940908
US 6093304	P	19951213	US AA	PRIORITY
			US 571629 A3	19951213
US 6093304	P	19971031	US AA	PRIORITY
			US 961924 A1	19971031
US 6093304	P	19990329	US AE	APPLICATION DATA (PATENT)
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			US 277930 A	19990329
US 6093304	P	20000725	US A	PATENT
US 6093304	P	20011218	US CC	CERTIFICATE OF CORRECTION
US 6093304	P	20020514	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	

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WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9607773 A1 19960314

ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS  
(English)

Patent Assignee: MOLTECH INVENT SA (LU); NORA VITTORIO DE (BS)

Author (Inventor): DE NORA VITTORIO (BS)

Priority (No,Kind,Date): US 302178 A 19940908

Applic (No,Kind,Date): WO 95IB721 A 19950830

Designated States: (National) AT; AU; BR; CA; CH; CN; CZ; DE; ES; GB;  
HU; IS; JP; KP; KR; MX; NO; NZ; PL; RO; RU; SE; SI; SK; TJ; UA; US  
(Regional) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT  
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Filing Details: WO 100000 With international search report

IPC: \* C25C-003/08

CA Abstract No: ; 125(04)043752P

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WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9607773 P 19940908 WO AA PRIORITY (PATENT)

US 302178 A 19940908

WO 9607773 P 19950830 WO AE APPLICATION DATA (APPL.  
DATA)

WO 95IB721 A 19950830

WO 9607773 P 19960314 WO AK DESIGNATED STATES CITED IN A  
PUBLISHED APPLICATION WITH SEARCH REPORT  
(DESIGNATED STATES CITED IN A PUBLISHED APPL.  
WITH SEARCH REPORT)AT AU BR CA CH CN CZ DE ES GB HU IS JP KP KR  
MX NO NZ PL RO RU SE SI SK TJ UA USWO 9607773 P 19960314 WO AL DESIGNATED COUNTRIES FOR  
REGIONAL PATENTS CITED IN A PUBLISHED  
APPLICATION WITH SEARCH REPORT (DESIGNATED  
COUNTRIES FOR REGIONAL PATENTS CITED IN A  
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INTERNATIONAL SEARCH REPORT (PUB. OF THE  
INTERNATIONAL APPL. WITH THE INTERNATIONAL  
SEARCH REPORT)WO 9607773 P 19960418 WO DFPE REQUEST FOR PRELIMINARY  
EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH  
MONTH FROM PRIORITY DATEWO 9607773 P 19960619 WO 121 EP: PCT APP. ART. 158 (1)  
(EP: PCT ANM. ART. 158 (1))WO 9607773 P 19970305 WO ENP ENTRY INTO THE NATIONAL  
PHASE IN:

CA 2199288 AA

WO 9607773 P 19970626 DE 8642/REG WITHDRAWAL (ZURUECKNAHME)

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1/9/1 (Item 1 from file: 123)

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Status Changes:

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Assignee:  
Moltech Invent S A LU

Patent	Issue
Number	Date

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US 6093304

20000725

Reissue Requested:

Request	Request	Recorded	Exam.	Reissue
Number	Date	in OG	Group	Patent No.

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1/9/2 (Item 1 from file: 345)

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Basic Patent (No,Kind,Date): CA 2199288 AA 19960314

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9531901 A1 19960327

ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS  
(English)

Patent Assignee: MOLTECH INVENT SA

Author (Inventor): NORA VITTORIO DE

Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908

Applic (No,Kind,Date): AU 9531901 A 19950830

IPC: \* C25C-003/08

Derwent WPI Acc No: \* C 96-171642

Language of Document: English

Patent (No,Kind,Date): AU 9865932 A1 19980730

ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CATHODE BOTTOM (English)

Patent Assignee: MOLTECH INVENT SA

Author (Inventor): NORA VITTORIO DE

Priority (No,Kind,Date): US 302178 A 19940908

Applic (No,Kind,Date): AU 9865932 A 19980514